Milligan, J.F., Groebe, D.R., Witherwell, G.W., and Uhlenbeck, O.C. (1987) Nucl. Acids. Res. 15, 8783-8798.

Mizrahi, V., Henrie, R.N., Marlier, J.F., Johnson,
K.A., and Benkovic, S.J. (1985) Biochemistry 24, 4010-4018.

Moroney, S.E., and Picirrilli, J.A. (1991) Biochemistry 30, 10343-10349.

Niyogi, S.K., Feldman, R.P. (1981) Nucleic Acids Res. 9, 2615-2627.

Myers and Gelfand, D. (1991) Biochemistry 30, 7661-7666.

Patra, D., Sousa, R., and Lafer, E.M. (1992) J. Mol. Biol. 224, 307-318.

Pelletier, H., Sawaya, M.R., Kumar, A., Wilson, S.H., and Kraut, J. (1994) Science 264, 1891.

Polesky, A.H., Steitz, T.A., Grindley, N.D., and Joyce, C.M. (1989) J. Biol. Chem. 265, 14579-14591.

Ricchetti, M. and Buc, H. (1993) EMBO J. 12, 387-396.

Sambrook, J., Fritsch, E.F., Maniatis, T., (1989) Cold Spring Harbor Laboratory Press, Cold Spring Harbor, N.Y.

Sanger, <u>et al</u>. (1977) *Proc. Natl. Acad. Sci.* (USA) 74, 5463-5468.

Schmidt, G. and Tannhauser, S.J. (1945) J. Biol. Chem. 159, 83-89.

Shi, Y., Gamper, H., Hearst, J.E. (1988) J. Biol. Chem. 263, 527-534.

Sawaya, M.R., Pelletier, H., Kumar, A., Wilson, S.H., and Kraut, J. (1994) Science 264, 1930.

Sousa, R., and Padilla, R. (1995) EMBO J. 14, 4609-4621. (Incorporated by reference as if set forth herein.)

Sousa, R., Lafer, E.M., and Wang, B.-C. (1991) J. Crystal Growth 110, 237-246.

Sousa, R., Chung, Y.J., Rose, J.R., and Wang, B.C. (1993) Nature 364, 593-599.

Steitz, T.A., Smerdon, S.J., Jager, J., and Joyce, C.M. (1994) Science 266, 2022-2025.

Tabor, S., and Richardson, C.C. (1990) J. Biol. Chem. 265: 8322.

Tantillo, C., Jianoing, D., Jacobo-Molina, A., Nanni, R.G., Boyér, P.L., Hughes, S.H., Pauwels, R., Andiries, K., Janssen, P.A.J., and Arnold, E. (1994) J. Mol. Biol. 243, 369-387.

Tabor, S., and Richardson, C.C. (1989) Proc. Natl. Acad. Sci. USA 82, 1074-1078.

Tabor, S., and Richardson, C.C. (1985) Proc. Natl. Acad. Sci. USA 82, 1074-1078.

Osumi-Davis, P.A., Sreerama N., Volkin, D.B., Middaugh, C.R., Woody, R.W., Woody, A.Y. (1994) J. Mol. Biol. 237, 5-19.